Atty. Docket No.: 12569-107 Appl. Ser. No.: 09/904,306 Response to 12 July 2003 Office Action

Amendments To The Claims

This listing of claims will replace all previous versions, and listings, of claims in the application.

Listing of claims:

- 1-10. canceled
- 11. (currently amended) An electrical circuit comprised of:

at least-one or more dielectric layers comprised of latex; and
at least a corresponding number of one or more layers of electrically conductive
material patterned to form multiple electrical interconnects, at least one of the
corresponding number of electrically conductive material layers disposed above a
corresponding one of the at least one dielectric layers with each such electrically
conductive layer placed on top of one of said dielectric layers.

- 12. (original) A circuit as in claim 11, wherein the electrically conductive material is copper.
- 13. (original) A circuit as in claim 11, wherein the dielectric and conductive layers are used to connect individual bonding pads on different integrated circuits which are part of a multichip module.

14-16. canceled

17. (Amended) A multichip module comprising:

a plurality of integrated circuits mounted on a substrate;

at least one or more flexible dielectric layers comprised of latex; and

at least a corresponding number of one or more layers of electrically conductive material patterned to form multiple electrical interconnects between bonding pads on different ones of said integrated circuits, at least one of the corresponding number of electrically conductive material layers disposed above a corresponding one of the at least

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one flexible dielectric layer with each such electrically conductive layer placed on top of one of said dielectriclayers.

18-44. canceled

45. (original) A circuit as in Claim 11 wherein:

one or more of said latex layers has a top surface that contains peaks and valleys of a size that would not occur on the top surface of the latex had it not been roughened, and one or more of said conductive layers is formed of a first conductive metal that substantially fills said valleys formed in the portion of the latex layer's top surface over which the conductive layer's metal has been patterned, so as to increase the ability of said metal to adhere to said latex surface.

- 46. (original) A circuit as in Claim 45 wherein the portions of said one or more layers of the first conductive metal adjacent said latex layer between said peaks and valleys contain particles of a second metal that were used as catalytic seed particles to promote the deposition of said first metal onto the roughened top surface of said latex layer.
- 47. (original) A circuit as in Claim 46 wherein a majority of the catalytic seed particles contained in said first conductive metal adjacent the top surface of said latex layer contain only two to six atoms of said second metal.
- 48. (original) A circuit as in Claim 46 wherein the second metal of which said catalytic seed particles are formed is a metal in the eighth group of the periodic table.
- 49. (original) A circuit as in Claim 46 wherein said second metal is palladium.
- 50. (original) A multichip module as in Claim 17 wherein:

one or more of said latex layers has a top surface that contains peaks and valleys of a size that would not occur on the top surface of the latex had it not been roughened,

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and one or more of said conductive layers is formed of a first conductive metal that substantially fills said valleys formed in the portion of the latex layer's top surface over which the conductive layer's metal has been patterned, so as to increase the ability of said metal to adhere to said latex surface.

- 51. (original) A multichip module as in Claim 50 wherein the portions of said one or more layers of the first conductive metal adjacent said latex layer between said peaks and valleys contain particles of a second metal that were used as catalytic seed particles to promote the deposition of said first metal onto the roughened top surface of said latex layer.
- 52. (original) A multichip module as in Claim 51 wherein a majority of the catalytic seed particles contained in said first conductive metal adjacent the top surface of said latex layer contain only two to six atoms of said second metal.
- 53. (original) A multichip module as in Claim 51 wherein the second metal of which said catalytic seed particles are formed is a metal in the eighth group of the periodic table.
- 54. (original) A multichip module as in Claim 52 wherein said second metal is palladium.